



1

SEQUENCE LISTING

<110> YAROVINSKY, TIMUR

<120> TOPOISOMERASE ACTIVATED OLIGONUCLEOTIDE ADAPTORS AND USES THEREFOR

<130> UIA-031.01

<140> 09/871,607

<141> 2001-05-31

<150> 60/208,662

<151> 2000-05-31

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 1

taatacgaact cactataggg acccttggtg cacca

35

<210> 2

<211> 11

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 2

agggtcccta t

11

<210> 3

<211> 21

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

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gaagcacatg tctttaatgt c

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<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 4
gaactaacat taatacacat cac

23

<210> 5
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 5
gtaccacctc accagtgtct

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<210> 6
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<223> Description of Artificial Sequence: Primer

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aaatgatggc cagagacca

19

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<212> DNA
<213> Vaccinia virus

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atgcgtgcac tttttataa agatggtaaa ctcttaccg ataataattt tttaaatcct 60
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acagatgtag tagtatatga acaaACgtgg gaggaggcgt taacttagatt aatttttgtg 180
ggaagtgtt caaaaggacg tagacaatac ttttacggaa aaatgcatgt acagaatcgc 240
aacgctaaaa gagatcgat ttttgtttaga gtatataacg ttatgaaacg aattaattgt 300
tttataaaca aaaatataaa gaaatcgccc acagattcca attatcagg ggCGGTTTT 360
atgttaatgg aaactatgtt ttttattttaga tttgttaaaa tgaaatatct taaggagaat 420
gaaacagtag ggttatttaac actaaaaaat aaacacatag aaataagtcc cgatgaaata 480
gttatcaagt ttgttaggaaa ggacaaagtt tcacatgaat ttgttgttca taagtcta 540
agactatata agccgctatt gaaactgacg gatgattcta gtcccgaaga atttctgttc 600
aacaactaa gtgaacgaaa ggtatatacg ttttatata attttggttca aatgtaaag 660
gatctccgaa cgtatggagt caattatacg ttttatata attttggttca aatgtaaag 720
tccatatatc tcctccatc accaaaaaaat ttaatagcgt taactatcaa acaaactgct 780
gaagtggtag gtcatactcc atcaatttca aaaagagctt atatggcaac gactatttt 840
gaaatggtaa aggataaaaa ttttttagat gtagtatcta aaactacggtt cgtgaattc 900

ctatctatacg tcgttagatca cgtaaatca tctacggatg gatga 945

<210> 8

<211> 314

<212> PRT

<213> Vaccinia virus

<400> 8

Met Arg Ala Leu Phe Tyr Lys Asp Gly Lys Leu Phe Thr Asp Asn Asn
 1 5 10 15

Phe Leu Asn Pro Val Ser Asp Asp Asn Pro Ala Tyr Glu Val Leu Gln
 20 25 30

His Val Lys Ile Pro Thr His Leu Thr Asp Val Val Val Tyr Glu Gln
 35 40 45

Thr Trp Glu Glu Ala Leu Thr Arg Leu Ile Phe Val Gly Ser Asp Ser
 50 55 60

Lys Gly Arg Arg Gln Tyr Phe Tyr Gly Lys Met His Val Gln Asn Arg
 65 70 75 80

Asn Ala Lys Arg Asp Arg Ile Phe Val Arg Val Tyr Asn Val Met Lys
 85 90 95

Arg Ile Asn Cys Phe Ile Asn Lys Asn Ile Lys Lys Ser Ser Thr Asp
 100 105 110

Ser Asn Tyr Gln Leu Ala Val Phe Met Leu Met Glu Thr Met Phe Phe
 115 120 125

Ile Arg Phe Gly Lys Met Lys Tyr Leu Lys Glu Asn Glu Thr Val Gly
 130 135 140

Leu Leu Thr Leu Lys Asn Lys His Ile Glu Ile Ser Pro Asp Glu Ile
 145 150 155 160

Val Ile Lys Phe Val Gly Lys Asp Lys Val Ser His Glu Phe Val Val
 165 170 175

His Lys Ser Asn Arg Leu Tyr Lys Pro Leu Leu Lys Leu Thr Asp Asp
 180 185 190

Ser Ser Pro Glu Glu Phe Leu Phe Asn Lys Leu Ser Glu Arg Lys Val
 195 200 205

Tyr Glu Cys Ile Lys Gln Phe Gly Ile Arg Ile Lys Asp Leu Arg Thr
 210 215 220

Tyr Gly Val Asn Tyr Thr Phe Leu Tyr Asn Phe Trp Thr Asn Val Lys
 225 230 235 240

Ser Ile Ser Pro Leu Pro Ser Pro Lys Lys Leu Ile Ala Leu Thr Ile
 245 250 255

Lys Gln Thr Ala Glu Val Val Gly His Thr Pro Ser Ile Ser Lys Arg
 260 265 270

Ala Tyr Met Ala Thr Thr Ile Leu Glu Met Val Lys Asp Lys Asn Phe
 275 280 285

Leu Asp Val Val Ser Lys Thr Thr Phe Asp Glu Phe Leu Ser Ile Val
 290 295 300

Val Asp His Val Lys Ser Ser Thr Asp Gly
 305 310

<210> 9
<211> 17
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: T7 phage
 promoter

<400> 9
taatacgact cactata 17

<210> 10
<211> 24
<212> DNA
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<220>
<223> Description of Artificial Sequence: T3 phage
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<400> 10
ttatattaaccc tcactaaagg gaag 24

<210> 11
<211> 23
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: SP6 phage
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<400> 11
attttaggtga cactatagaa tac 23

<210> 12
<211> 46
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 12

taatacgaact cactataggg acccttggtg caccaagggt ccctat

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